

Claims

- [c1] 1. An electronic apparatus having a structure for protecting a flexible printed circuit (FPC) and a chip thereon, comprising:
- a backplate;
 - a first circuit, disposed on a front side of the backplate;
 - a second circuit, disposed on a back side of the backplate;
 - a frame plate, disposed at a periphery of the backplate;
 - at least one FPC with at least one chip thereon, having a first end connected to the first circuit and a second end connected to the second circuit over the frame plate;
 - a screen plate, disposed on the frame plate screening the FPC and the chip; and
 - at least one insulating elastic ring disposed around the FPC, wherein an inner periphery of the ring closely contacts with the chip and an outer periphery of the ring closely contacts with the frame plate and the screen plate.
- [c2] 2. The electronic apparatus of claim 1, wherein the FPC has a length exactly allowing the second end thereof to be bent to the back side of the backplate to connect with

the second circuit, so that the outer periphery of the insulating elastic ring can closely contact with the frame plate.

[c3] 3. The electronic apparatus of claim 1, wherein a central hole of the insulating elastic ring at a relaxed state has a size such that the ring is slightly expanded as being disposed around the FPC.

[c4] 4. The electronic apparatus of claim 1, wherein the insulating elastic ring comprises cured silicone rubber.

[c5] 5. The electronic apparatus of claim 1, which is a plasma display.

[c6] 6. The electronic apparatus of claim 5, wherein the first circuit comprises an electrode circuit on a display panel of the plasma display.

[c7] 7. The electronic apparatus of claim 6, wherein the second circuit comprises a driving circuit of the plasma display.

[c8] 8. The electronic apparatus of claim 7, wherein the FPC has a length exactly allowing the second end thereof to be bent to the back side of the backplate to connect with the driving circuit, so that the outer periphery of the insulating elastic ring can closely contact with the frame

plate.

- [c9] 9. The electronic apparatus of claim 7, wherein the chip comprises a driving chip.
- [c10] 10. The electronic apparatus of claim 5, wherein a central hole of the insulating elastic ring at a relaxed state has a size such that the ring is slightly expanded as being disposed around the FPC.
- [c11] 11. The electronic apparatus of claim 5, wherein the insulating elastic ring comprises cured silicone rubber.